

MTS-3305US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	A. Ochi	: Art Unit:
Serial No.:	10/049,977	: Examiner:
Filed:	Herewith	:
FOR:	IDENTIFICATION NUMBER MANAGING	:
	APPARATUS, IDENTIFICATION NUMBER	
	MANAGING SYSTEM AND	
	IDENTIFICATION NUMBER MANAGING	
	METHOD	

SUPPLEMENTAL PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

S I R :

Prior to examination, please further amend the above-identified application
as follows:

IN THE CLAIMS:

Please add the following new claims:

- 1 17. (Newly Added) The method of claim 6 including a step of individually
- 2 obtaining an identification code for each of the plurality of IEEE 1394 equipment;
- 3 and
- 4 said generation step individually generating a respective identifier using
- 5 both (a) the identification code individually obtained by each of the IEEE 1394
- 6 equipment and (b) the identification number forwarded to each of the IEEE 1394
- 7 equipment in the communications step.

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- 1 18. (Newly Added) The method of claim 7 including a step of
2 arithmetically combining the identification code and the identification number in
3 each of the IEEE 1394 equipment to obtain the respective identifier.

Respectfully Submitted,



Allan Ratner, Reg. No. 19,717
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AR/lm

Enclosure: Version With Markings Showing Changes Made

Dated: July 11, 2002

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

CLAIMS:

Claims 17 and 18 are newly added.

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PATENT

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Applicant:	A. Ochi	: Art Unit:
Serial No.:	To Be Assigned	: Examiner:
Filed:	Herewith	:
FOR:	IDENTIFICATION NUMBER MANAGING APPARATUS, IDENTIFICATION NUMBER MANAGING SYSTEM AND IDENTIFICATION NUMBER MANAGING METHOD	:

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

S I R :

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the section beginning at page 5, line 16:

To achieve the above object, one aspect of the present invention is an identification number managing apparatus, comprising:

Please replace the section beginning at page 6, line 6:

Further, another aspect of the present invention is the invention mentioned above, characterized in that said plurality pieces of IEEE1394 equipment are configured as one product,

Please replace the paragraph beginning at page 6, line 12:

Further, still another aspect of the present invention is the identification

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number managing apparatus, characterized in that said identification number is in compliance with IEEE1212 Standard.

Please replace the paragraph beginning at page 6, line 17:

Yet still another aspect of the present invention is the IEEE1394 equipment which works together with an identification number managing apparatus, characterized in comprising means of processing said identification number as said identifier which can be included in said configuration ROM.

Please delete the paragraph beginning at page 6, line 24 and ending at page 7, line 6.

Please replace the section beginning at page 7, line 6:

A further aspect of the present invention is an identification number managing method, comprising:

Please replace the section beginning at page 7, line 24:

A still further aspect of the present invention is the invention mentioned above, characterized in that said plurality pieces of IEEE1394 equipment are configured as one product,

Please replace the paragraph beginning at page 8, line 5:

A yet further aspect of the present invention is the invention mentioned above, characterized in that said identification number is in compliance with IEEE1212 Standard.

Please replace the paragraph beginning at page 8, line 9:

A still yet further aspect of the present invention is a program which makes a computer function as all or a part of memory means of saving an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other of an identification number managing apparatus and all or a part of communications

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means of forwarding said identification number to said plurality pieces of IEEE equipment.

Please replace the section beginning at page 8, line 19:

An additional aspect of the present invention is a program which makes a computer function as all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment.

Please replace the paragraph beginning at page 8, line 25:

A still additional aspect of the present invention is a program which makes a computer function as all or a part of memory means of saving an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other in an identification number managing apparatus, all or a part of communications means of forwarding said identification number to said plurality pieces of IEEE equipment, and all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment in an identification number managing system.

Please replace the section beginning at page 9, line 15:

A yet additional aspect of the present invention is a program which makes a computer execute all or some of:

Please replace the section beginning at page 10, line 4:

an establishment step at which said plurality pieces of IEEE1394 equipment establish a configuration ROM which contains said identifier or an identification number managing method.

Please replace the paragraph beginning at page 10, line 8:

A still yet additional aspect of the present invention is a medium which can

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be processed by a computer and holds a program which makes a computer function as all or a part of memory means of saving an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other of an identification number managing apparatus and all or a part of communications means which forwards said identification number to said plurality pieces of IEEE equipment.

Please replace the paragraph beginning at page 10, line 19:

A supplementary aspect of the present invention is a medium which can be processed by a computer and holds a program which makes a computer function as all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment.

Please replace the paragraph beginning at page 11, line 1:

A still supplementary aspect of the present invention) is a medium which can be processed by a computer and holds a program which makes a computer function as all or a part of memory means, which saves an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other in an identification number managing system all or a part of communications means which forwards said identification number to said plurality pieces of IEEE equipment, and all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment.

Please replace the section beginning at page 11, line 17:

A yet supplementary aspect of the present invention is a medium which can be processed by a computer and holds a program which makes a computer execute all or some of:

Please replace the section beginning at page 12, line 7:

an establishment step at which said plurality pieces of IEEE1394 equipment establish a configuration ROM which contains said identifier or an identification

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number managing method.

Please replace the paragraph beginning at page 15, line 4:

Next, Fig. 2 is a drawing showing an example of the format of EUI-64 within the IEEE1394 instruments according to this preferred embodiment. In Fig. 2, node_vendor_ID 210 in the upper row is a number which is unique to a manufacturer of the IEEE1394 equipment, the product code 220 is a number which is common to the respective 1394 instruments and corresponds to an identification number or identifier of the present invention. Of these, the product code 220 is an example of data held in chip_id_hi. Meanwhile, the date of manufacture 230, an identification code 240 and a serial number 250 are an example of data held in chip_id_lo. The identification code 240, in particular, is a code for identifying each one of the IEEE1394 instruments A101 through C103 which are in the product.

Please replace the section beginning at page 16, line 11:

First, it is assumed that the identification code 240 of the IEEE1394 instrument A101 is 01h, the identification code 240 of the IEEE1394 instrument B102 is 02h, the identification code 240 of the IEEE1394 instrument C103 is 03h and the respective identification codes are stored in the bit processing means 301, 302 and 303, respectively. It is also assumed that the bit processing means 301, 302 and 303 do not hold any data other than the identification code 240 in relation to EUI-64s.

Please replace the section beginning at page 20, line 25:

Furthermore, although the foregoing has described that the EUI-64 memory apparatus holds EUI-64s which are adapted to configuration ROMs complying with IEEE1212 of the respective IEEE1394 instruments according to the preferred embodiment above, the present invention is not limited to this. Instead, the format of data processed between the EUI-64 memory apparatus 100 and the bit processing means 301 through 303 before included in configuration ROMs may be

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modified in accordance with a revision made to the standard, such as IEEE1212r, or other format.

IN THE CLAIMS:

Please replace claims 4, 5, 11, and 15 with the following amended claims:

1 4. (As Amended) IEEE1394 equipment which works together with an
2 identification number managing apparatus in accordance with any one of Claims 1
3 or 2, characterized in comprising means of processing said identification number
4 as said identifier which can be included in said configuration ROM.

1 5. (As Amended) An identification number managing system,
2 characterized in comprising:

3 the identification number managing apparatus in accordance with any one
4 of Claims 1 or 2; and

5 IEEE1394 equipment.

1 11. (As Amended) A program which makes a computer function as all or a
2 part of memory means of saving an identification number which is processed as a
3 common identifier in a plurality pieces of IEEE1394 equipment which can operate
4 independently of each other in an identification number managing apparatus in
5 accordance with any one of Claims 1 or 2 all or a part of communications means of
6 forwarding said identification number to said plurality pieces of IEEE equipment,
7 and all or a part of means of processing said identification number as said
8 identifier which can be included in said configuration ROM in IEEE1394
9 equipment in an identification number managing system.

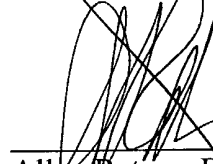
1 15. (As Amended) A medium which can be processed by a computer and
2 holds a program which makes a computer function as all or a part of memory
3 means, which saves an identification number which is processed as a common
4 identifier in a plurality pieces of IEEE1394 equipment which can operate
5 independently of each other in an identification number managing apparatus in
6 accordance with any one of Claims 1 or 2 in an identification number managing

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7 system all or a part of communications means which forwards said identification
8 number to said plurality pieces of IEEE equipment, and all or a part of means of
9 processing said identification number as said identifier which can be included in
10 said configuration ROM in IEEE1394 equipment.

Respectfully Submitted,



Allan Ratner, Reg. No. 19,717
Attorney for Applicant

AR/lm

Enclosure: Version With Markings Showing Changes Made

Dated: February 19, 2002

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sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States
Postal Service on the date indicated above and that the deposit is addressed to the Assistant
Commissioner for Patents, Washington, D.C. 20231.



Kathleen Libby

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VERSION WITH MARKINGS TO SHOW CHANGES MADESPECIFICATION:

Specification at page 5, line 16:

To achieve the above object, ~~the 1st invention~~ one aspect of the present invention ~~(corresponding to claim 1)~~ is an identification number managing apparatus, comprising:

Specification at page 6, line 6:

Further, ~~the 2nd invention~~ another aspect of the present invention ~~(corresponding to claim 2)~~ is the invention mentioned above, characterized in that said plurality pieces of IEEE1394 equipment are configured as one product,

Specification at page 6, line 12:

Further, ~~the 3rd invention~~ still another aspect of the present invention ~~(corresponding to claim 3)~~ is the identification number managing apparatus ~~in accordance with Claim 1 or 2~~, characterized in that said identification number is in compliance with IEEE1212 Standard.

Specification at page 6, line 17:

Further, ~~the 4th invention~~ Yet still another aspect of the present invention ~~(corresponding to claim 4)~~ is the IEEE1394 equipment which works together with an identification number managing apparatus ~~in accordance with any one of 1st through 3rd inventions~~, characterized in comprising means of processing said identification number as said identifier which can be included in said configuration ROM.

Specification at page 6, line 24:

~~The 5th invention of the present invention (corresponding to claim 5) is an identification number managing system, characterized in comprising:~~

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~~the identification number managing apparatus in accordance with any one of the 1st through 3rd inventions; and~~

~~IEEE1394 equipment in accordance with the 4th invention.~~

Specification at page 7, line 6:

~~The 6th invention~~ A further aspect of the present invention ~~(corresponding to claim 6)~~ is an identification number managing method, comprising:

Specification at page 7, line 24:

~~The 7th invention~~ A still further aspect of the present invention ~~(corresponding to claim 7)~~ is the invention mentioned above, characterized in that said plurality pieces of IEEE1394 equipment are configured as one product,

Specification at page 8, line 5:

~~The 8th invention~~ A yet further aspect of the present invention ~~(corresponding to claim 8)~~ is the invention mentioned above, characterized in that said identification number is in compliance with IEEE1212 Standard.

Specification at page 8, line 9:

~~The 9th invention~~ A still yet further aspect of the present invention ~~(corresponding to claim 9)~~ is a program which makes a computer function as all or a part of memory means of saving an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other of an identification number managing apparatus and all or a part of communications means of forwarding said identification number to said plurality pieces of IEEE equipment ~~in accordance with the 1st invention.~~

Specification at page 8, line 19:

~~The 10th invention~~ An additional aspect of the present invention ~~(corresponding to claim 10)~~ is a program which makes a computer function as all or a part of means of processing said identification number as said identifier which

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can be included in said configuration ROM in IEEE1394 equipment ~~in accordance with the 4th invention.~~

Specification at page 8, line 25:

~~The 11th invention~~ A still additional aspect of the present invention (corresponding to claim 11) is a program which makes a computer function as all or a part of memory means of saving an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other in an identification number managing apparatus ~~in accordance with any one of the 1st through 3rd inventions~~, all or a part of communications means of forwarding said identification number to said plurality pieces of IEEE equipment, and all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment ~~in accordance with the 4th invention~~ in an identification number managing system ~~in accordance with the 5th invention.~~

Specification at page 9, line 15:

~~The 12th invention~~ A yet additional aspect of the present invention (corresponding to claim 12) is a program which makes a computer execute all or some of:

Specification at page 10, line 4:

an establishment step at which said plurality pieces of IEEE1394 equipment establish a configuration ROM which contains said identifier or an identification number managing method ~~in accordance with the 6th invention.~~

Specification at page 10, line 8:

~~The 13th invention~~ A still yet additional aspect of the present invention (corresponding to claim 13) is a medium which can be processed by a computer and holds a program which makes a computer function as all or a part of memory means of saving an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate

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independently of each other of an identification number managing apparatus and all or a part of communications means which forwards said identification number to said plurality pieces of IEEE equipment ~~in accordance with the 1st invention.~~

Specification at page 10, line 19:

~~The 14th invention~~ A supplementary aspect of the present invention (corresponding to claim 14) is a medium which can be processed by a computer and holds a program which makes a computer function as all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment ~~in accordance with the 4th invention.~~

Specification at page 11, line 1:

~~The 15th invention~~ A still supplementary aspect of the present invention (corresponding to claim 15) is a medium which can be processed by a computer and holds a program which makes a computer function as all or a part of memory means, which saves an identification number which is processed as a common identifier in a plurality pieces of IEEE1394 equipment which can operate independently of each other in an identification number ~~managing apparatus in accordance with any one of the 1st through 3rd inventions in an identification number~~ managing system all or a part of communications means which forwards said identification number to said plurality pieces of IEEE equipment, and all or a part of means of processing said identification number as said identifier which can be included in said configuration ROM in IEEE1394 equipment ~~in accordance with the 4th invention, in accordance with the 5th invention.~~

Specification at page 11, line 17:

~~The 16th invention~~ A yet supplementary aspect of the present invention (corresponding to claim 16) is a medium which can be processed by a computer and holds a program which makes a computer execute all or some of:

Specification at page 12, line 7:

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an establishment step at which said plurality pieces of IEEE1394 equipment establish a configuration ROM which contains said identifier or an identification number managing method ~~in accordance with the 6th invention.~~

Specification at page 15, line 4:

Next, Fig. 2 is a drawing showing an example of the format of EUI-64 within the IEEE1394 instruments according to this preferred embodiment. In Fig. 2, node_vendor_ID 210 in the upper row is a number which is unique to a manufacturer of the IEEE1394 equipment, the product code 220 is a number which is common to the respective 1394 instruments and corresponds to an identification number or identifier of the present invention. Of these, the product code 220 is an example of data held in chip_id_hi. Meanwhile, the date of manufacture 230, an identification code 240 and a serial number 250 are an example of data held in chip_id_lo. The identification code 240, in particular, is a code for identifying each one of the IEEE1394 instruments A101 through ~~B103~~ C103 which are in the product.

Specification at page 16, line 11:

First, it is assumed that the identification code 240 of the IEEE1394 instrument A101 is 01h, the identification code 240 of the IEEE1394 instrument B102 is 02h, the identification code 240 of the IEEE1394 instrument C103 is 03h and the respective identification codes are stored in the bit processing means 301, 302 and 303, respectively. It is also assumed that the bit processing means 301, 302 and 303 do not hold any data other than the identification code 240 in relation to EUI-64s.

Specification at page 20, line 25:

Furthermore, although the foregoing has described that the EUI-64 memory apparatus holds EUI-64s which are adapted to configuration ROMs complying with IEEE1212 of the respective IEEE1394 instruments according to the preferred embodiment above, the present invention is not limited to this. Instead, the format of data processed between the EUI-64 memory apparatus 100 and the bit

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processing means 301 through ~~302~~ 303 before included in configuration ROMs may be modified in accordance with a revision made to the standard, such as IEEE1212r, or other format.

CLAIMS:

1 4. (As Amended) IEEE1394 equipment which works together with an
2 identification number managing apparatus in accordance with any one of Claims 1
3 ~~through 3~~ or 2, characterized in comprising means of processing said identification
4 number as said identifier which can be included in said configuration ROM.

1 5. (As Amended) An identification number managing system,
2 characterized in comprising:

3 the identification number managing apparatus in accordance with any one
4 of Claims 1 ~~through 3~~ or 2; and

5 IEEE1394 equipment ~~in accordance with Claim 4.~~

1 11. (As Amended) A program which makes a computer function as all or a
2 part of memory means of saving an identification number which is processed as a
3 common identifier in a plurality pieces of IEEE1394 equipment which can operate
4 independently of each other in an identification number managing apparatus in
5 accordance with any one of Claims 1 ~~through 3~~ or 2 all or a part of communications
6 means of forwarding said identification number to said plurality pieces of IEEE
7 equipment, and all or a part of means of processing said identification number as
8 said identifier which can be included in said configuration ROM in IEEE1394
9 equipment ~~in accordance with Claim 4~~ in an identification number managing
10 system ~~in accordance with Claim 5.~~

1 15. (As Amended) A medium which can be processed by a computer and
2 holds a program which makes a computer function as all or a part of memory
3 means, which saves an identification number which is processed as a common
4 identifier in a plurality pieces of IEEE1394 equipment which can operate
5 independently of each other in an identification number managing apparatus in

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6 accordance with any one of Claims 1 ~~through 3~~ or 2 in an identification number
7 managing system all or a part of communications means which forwards said
8 identification number to said plurality pieces of IEEE equipment, and all or a part
9 of means of processing said identification number as said identifier which can be
10 included in said configuration ROM in IEEE1394 equipment ~~in accordance with~~
11 ~~Claim 4, in accordance with Claim 5.~~